Evaluation of Trail Alternatives on Anemone Hill

ANEMONE HILL ALTERNATIVES

Alternative C-1: Initial Trail Concept

Alternative C-2: Main Loop (Shared Use)

Alternative C-3: Main Loop System with Hiker Connections

Alternative A-1: CCG Recommended Alternative

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
C 1	Benefits:	Benefits:	Benefits:	Steep cross-slope on the north side	Estimates by Design Concepts and
C-1	 Users more likely to stay on trail Allows undesignated trail restoration	 Provides a new designated trail system in the Anemone Area. 	Trail alignment and design features could be used to mitigate or reduce some	of Anemone would require the bench to be approximately 3-4 ft	Contour Logic
	success	This option provides the greatest	potential for recreational conflicts.	wide, with a narrow active tread.	
Initial Trail		variety of lengths for hikers to	The two interior trail sections are for	This would facilitate safe passing	Shared Use Loop: \$203,928
Concept	Impacts:	choose from. The length for	pedestrians and equestrians providing	and yielding.Multiple structures would be	Hiking Only Trails: \$88,093
Concept	Impacts, or is in close proximity to numerous rare plant occurrences in the	mountain bikes is also long enough to provide a quality	non multi-use opportunities. • Pedestrian and equestrian trail sections	needed to increase trail	
	area.	experience.	provide alternative trail loop options for	sustainability to minimize long-	Boulder Creek Path Connection: \$28,824
6.6 miles	Switchbacks up from Sunshine Rd at the	Incorporates existing user patterns in the area as evident by	shorter or varied trail experiences.	term maintenance costs. • Segment 40, see attachment C,	320,024
	west end may require wetlands permitting.	patterns in the area, as evident by social trails, to the greatest	 Some bicyclists will ride bikes to the trail thereby reducing some need for visitors 	would not be considered	Total: \$320,845
	The stacked switchbacks would bisect a	extent.	to drive to trailhead, reducing parking	sustainable, but would improve the	
	block of high quality forest vegetation.	A flow for the bike experience can	issues and neighborhood conflicts.	condition of this important	
	The connection from Boulder Creek	be designed into the trail.	<u> </u>	connection with the use of steps	
	Path is on a very steep slope. The	Steep terrain creates a challenging	Impacts:	and other structures.	
	decomposed granite soils make erosion	biking and hiking experience.	 Multiple-use trail sections are likely to 	Improvements would be needed to	
	problematic.	Provides an experience through	lead to some conflicts associated with	the trail along Sunshine Road to	
		the varied terrain of forests, open	speed differential and passing/yielding	improve sustainability.	
	When compared to the WTSA Final Plan for	grasslands meadows and rock	conflicts.	• The switchbacks of Segment 32	
	the Anemone area, this option would:	outcrops.Provides a new mountain bike	 Steep trails, higher bike speeds and high visitation creates potential for 	would need to be sustainable for mountain bikes which are usually	
	 increase overall trail density in the Anemone area by 29%; 	experience close to Boulder,	dangerous conditions and negative	more intensive and costly than	
	• increase trail density in black bear Highly	eliminates the need for some to	visitor interactions.	creating sustainable switchbacks	
	Suitable Habitat in the Anemone area by	drive to a mountain biking	The multi-use trail section along	for hiking/equestrians.	
	26% (Tables 1, 2);	opportunity.	Sunshine Drive will be more prone to	Refer to Attachment C for	
	• reduce acreage of Abert's squirrel Highly	Provides bike trail connections	conflicts and passing/yielding issues due	Contractor thoughts about	
	Suitable Habitat in the Anemone area by	from Boulder Canyon bike path,	to incorporating some of the existing	sustainability.	
	27% (Tables 1, 3);	Settler's Park and Centennial	narrow undesignated trail into this		
	• increase habitat fragmentation in the	Trailheads.	section of trail. Trail alignment is		
	Anemone area—creating 5 smaller	Immosts	constrained by road and ditch.		
	habitat blocks instead of 3 larger ones	Impacts:For cyclists who like trails	 The steep trail section with switchbacks connecting the Anemone Ridge to the 		
	(See map entitled: "Anemone Area Fragmentation Analysis).	designed specifically for mountain	Sunshine Trail sections will be prone to		
	Tagnentation Analysis).	biking this might not be a	conflicts and yielding/passing issues.		
	Specific impacts by section:	preferred trail. Some trail	Potential for illegal use of trails not		
	Impacts from this option are similar to	features that enhance the biking	designated for mountain biking at many		
	"C-1: Main Loop with Hiker	experience will not be used as	intersections in the Red Rocks and		
	Connections" except that the impacts	they may conflict with managing	Anemone area.		
	from trail sections 15, 16a, and 22 are	the trail for multiple uses	Private property owners west of the		
	removed from the discussion because	(technical rocky sections,	loop may encounter an increase in		

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
	they were not considered as trail options. See "Trail Segments" Map for identification of trail sections. This alignment: • follows well-used ungulate trails (Section ["s"] 27, 13, 50, 22) with abundant deer beds (s32, 13, 50, 22); • encroaches into the back-country habitat block (s25); • crosses 6 additional well-vegetated drainages containing black bear Highly Suitable Habitat (s27, 25, 23, 50-52); • increases habitat fragmentation (s32, 23, 27, 14, 17, 50-52, 12, 19, 20); • increases habitat disturbance due to probability of placing trail through rock bands or on steep side slopes (s27, 32, 13, 50-52, 12, 19, 20); • bisects mature forest where Cooper's hawk adult, fledglings, and nest were located (s23, 25, 32) as well as where forest-interior bird species were present (s23, 25, 32); • increases chance of sedimentation where loose soils are present (s23, 32); • increases chance of cross-cutting switchbacks on very steep sections which may lead to trail sustainability issues (s23, 17, 50-52); • fragments Abert's squirrel Highly Suitable Habitat in multiple locations (s17, 14, 13); • parallels drainage with high-quality habitat with riparian vegetation (s16b); • crosses burned forest (s14, 13), which is rare habitat on OSMP and supports unique bird communities; and • crosses a hillside with southern exposure and extensive rock outcroppings, which is preferred habitat for rattlesnakes and lizards	 obstacles, etc.). The first portion of trail off of Boulder Canyon would require the use of many steps to get out of the canyon. Cyclists would need to carry their bikes up this portion of the trail. Trail alignment crosses or comes in contact with multiple undesignated trails creating the potential for increased off-designated trail use. Northern most hiking/equestrian trail crosses multiple drainages. This could result is multiple seasonal closures due to black bear activity. 	trespassing by cyclists accessing Fourmile Canyon and biking opportunities to the west. Settler's Park and Centennial trailheads are very popular and busy. Increased use in this area could lead to greater parking difficulty in the area. Some may chose to park in the neighborhood increasing conflicts in neighboring areas. Adding a designated trail system in the Anemone Hill area is likely to increase visitation. Adding mountain biking would add to the visitation, regional use, conflict, and degrade experience for non-biking visitors and may result in some visitor displacement.		

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
	(s12).				

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
C-2	Benefits:	Benefits:	Benefits:	Multiple structures would be	Estimates by Design Concepts and
C-Z	Users more likely to stay on trail Allows and designated trail restauration.	Provides a new designated trail System in the Anamana Area	Trail alignment and design features could have a mitigate or reduce some	needed to increase trail	Contour Logic
	 Allows undesignated trail restoration success 	system in the Anemone Area.The multiple-use section is long	be used to mitigate or reduce some potential for recreational conflicts.	sustainability to minimize long- term maintenance costs.	
	Success	enough to provide a quality	The Sunshine Drive trail section and two	• Segment 40, see attachment C,	Shared Use Loop: \$216,944
Main Loop	Impacts:	experience. Provides one hiker	other trail sections are for pedestrians	would not be considered	
(Shared Use)	 Impacts, or is in close proximity to 	only trail section that creates to	and equestrians. This will provide those	sustainable, but would improve the	Hiking Only Trails: \$34,976
	numerous rare plant occurrences in the	two length options for hikers.	users a mountain bike free opportunity.	condition of this important	
	area.	 Incorporates some of the existing 	Some bicyclists will ride bikes to the trail	connection with the use of steps	Boulder Creek Path Connection:
5.8 miles	 Switchbacks up from Sunshine Rd at the 	user patterns in the area.	thereby reducing some need for visitors	and other structures.	\$28,824
	west end may require wetlands	A flow for the bike experience can	to drive to trailhead, reducing parking	Improvements would be needed to	T-1-1, 6200 745
	permitting.	be designed into the trail.	issues and neighborhood conflicts.	the trail along Sunshine Road to	Total: \$280,745
	The connection from Boulder Creek	Steep terrain creates a challenging	Impacts	improve sustainability.	
	Path is on a very steep slope. The	biking and hiking experience.Provides an experience through	Impacts:Multiple-use trails are more likely to	Refer to Attachment C for Contractor thoughts about	
	decomposed granite soils make erosion	the varied terrain of forests, open	lead to some conflicts associated with	sustainability.	
	problematic.	grasslands meadows and rock	speed differential and passing/yielding	Sustainability.	
	·	outcrops.	conflicts.		
	When compared to the WTSA Final Plan's	Provides a new mountain bike	Steep trails, higher bike speeds and high		
	for the Anemone area, this option would:	experience close to Boulder,	visitation creates potential for		
	increase overall trail density in the	eliminates the need for some to	dangerous conditions and negative		
	Anemone area by 23%;	drive to a mountain biking	visitor interactions.		
	increase trail density in black bear Highly Suitable Habitat in the Anamana area by	opportunity.	Loss of opportunity for shorter trail Loss of opportunity for shorter trail		
	Suitable Habitat in the Anemone area by 20% (Tables 1, 2);	Provides bike trail connections From Boulder Converse bike note	loops along Sunshine Drive for non- cyclists. May result in higher use on		
	 reduce acreage of Abert's squirrel Highly 	from Boulder Canyon bike path, Settler's Park and Centennial	multi-use trails with greater conflict		
	Suitable Habitat in the Anemone area by	Trailheads.	potential or lead to use or development		
	46% (Tables 1, 3).	Trainicads.	of undesignated trails.		
	increase habitat fragmentation in the	Impacts:	The multi-use trail section along		
	Anemone area—creating four smaller	For cyclists who like trails	Sunshine Drive will be more prone to		
	habitat blocks instead of 3 larger ones	designed specifically for mountain	conflicts and passing/yielding issues due		
	(See map entitled: "Anemone Area	biking this might not be a	to incorporating some of the existing		
	Fragmentation Analysis").	preferred trail. Some trail	narrow undesignated trail into this		
	Specific impacts by section.	features that enhance the biking	section of trail. Trail alignment is		
	Specific impacts by section:Impacts from this option are similar to	experience will not be used as	constrained by road and ditch, possibly making visitors feel like they can't pass		
	C-1: "Main Loop with Hiker	they may conflict with managing the trail for multiple uses	safely.		
	Connections" except that the impacts	(technical rocky sections,	 Potential for illegal use of trails not 		
	from trail sections 32, 25, and 27 are	obstacles, etc.).	designated for mountain biking at many		
	removed from the discussion because	The first portion of trail off of	intersections in the Red Rocks and		
	they were not considered as trail	Boulder Canyon would require the	Anemone area.		

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
	options. See "Trail Segments" Map for identification of trail sections. This alignment: • follows well-used ungulate trails (Section ["s"] 27, 13, 50, 22) with abundant deer beds (s13, 50, 22); • encroaches into the back-country habitat block (s16a, 15.1, 15.2); • crosses 5 additional well-vegetated drainages containing black bear Highly Suitable Habitat (s23, 15.1, 16a, 50-52, 22); • increases habitat fragmentation (s23, 16a, 15.1, 15.2, 14, 17, 50-52, 12, 22, 19, 20); • increases habitat disturbance due to probability of placing trail through rock bands or on steep side slopes (s27, 13, 50-52, 12, 22, 19, 20); • bisects mature forest where Cooper's hawk adult, fledglings, and nest were located (s23) as well as where forest-interior bird species were present (s23, 16a); • increases chance of sedimentation where loose soils are present (s23); • increases chance of cross-cutting switchbacks on very steep sections which may lead to trail sustainability issues (s23, 17, 16a, 50-52); • fragments Abert's squirrel Highly Suitable Habitat in multiple locations (s17, 16a, 15.1, 15.2, 14, 13); • intersects or is parallel to un-restorable undesignated trail (Pipeline Trail) which leads into backcountry habitat block (s16a, 15.1, 15.2), this may lead to issues with trespassing on private property and could increase probability of parallel trails forming (s14) and / or crosscutting switchbacks (s15);	use of many steps to get out of the canyon. Cyclists would need to carry their bikes up this portion of the trail. • Trail alignment crosses or comes in contact with multiple undesignated trails creating the potential for increased offdesignated trail use.	 Private property owners west of the loop may encounter an increase in trespassing by cyclists accessing Fourmile Canyon and biking opportunities to the west. Settler's Park and Centennial trailheads are very popular and busy. Increased use in this area could lead to greater parking difficulty in the area. Some may chose to park in the neighborhood increasing conflicts in neighboring areas. Adding a designated trail system in the Anemone Hill area is likely to increase visitation. Adding mountain biking would add to the visitation, regional use, conflict, and degrade experience for non-biking visitors and may result in some visitor displacement. 		

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
	 parallels drainage with high-quality habitat with riparian vegetation (s16a); crosses burned forest (s14, 13, 22), which is rare habitat on OSMP and supports unique bird communities (s22); and crosses a hillside with southern exposure and extensive rock outcroppings, which is preferred habitat for rattlesnakes and lizards (s12). 				

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
C 2	Benefits:	Benefits:	Benefits:	Steep cross-slope on the north side	Estimates by Design Concepts and
C-3	Users more likely to stay on trail	Provides a new designated trail	Trail alignment and design features could	of Anemone would require the	Contour Logic
	Allows undesignated trail restoration	system in the Anemone Area.	be used to mitigate or reduce some	bench to be approximately 3-4 ft	
	success	This option provides the greatest	potential for recreational conflicts.	wide, with a narrow active tread.	Shared Use Loop: \$216,904
Main Loon		variety of lengths for hikers to	The Sunshine Drive trail section and two	This would facilitate safe passing	
Main Loop	Impacts:	choose from. The length for	other trail sections are for pedestrians	and yielding.	Hiking Only Trails: \$91,009
System with	The amount of disturbance on the	mountain bikes is also long	and equestrians. This will provide those	Multiple structures would be	
Hiker	north facing slope of the area is higher	enough to provide a quality	users a mountain bike free opportunity.	needed to increase trail	Boulder Creek Path Connection:
Connections	for this option than for other options.	experience.	Some bicyclists will ride bikes to the trail	sustainability to minimize long-	\$28,824
	Much of the Anemone area is disturbed	 Incorporates existing user 	thereby reducing some need for visitors	term maintenance costs.	
	with a high cover of non-native species.	patterns in the area, as evident by	to drive to trailhead, reducing parking	• Segment 40, see attachment C,	Total: \$ 336,737
7.3 miles	The upper portions of the north slope	social trails, to the greatest	issues and neighborhood conflicts.	would not be considered	
7.5 1111163	are relatively undisturbed and have	extent.		sustainable, but would improve the	
	large patches of high quality	A flow for the bike experience can	Impacts:	condition of this important	
	vegetation.	be designed into the trail.	Multiple-use trail sections are likely to	connection with the use of steps	
	Impacts, or is in close proximity to	Steep terrain creates a challenging	lead to some conflicts associated with	and other structures.	
	numerous rare plant occurrences in the	biking and hiking experience.	speed differential and passing/yielding	Improvements would be needed to	
	area. Trail alignment can likely be	Provides an experience through	conflicts. Most of the Anemone Trail	the trail along Sunshine Road to	
	tweaked to lessen.	the varied terrain of forests, open	sections are multi-use.	improve sustainability.	
	The multiple stacked trails on the north	grasslands meadows and rock	Steep trails, higher bike speeds and high	Refer to Attachment C for	
	slope could lead to short cutting and	outcrops.	visitation creates potential for	Contractor thoughts about	
	the establishment of new social trails.	Provides a new mountain bike	dangerous conditions and negative	sustainability.	
	The connection from Boulder Creek	experience close to Boulder,	visitor interactions.		
	Path is on a very steep slope. The	eliminates the need for some to	Potential for illegal use of trails not		
	decomposed granite soils make erosion	drive to a mountain biking	designated for mountain biking at many		
	problematic.	opportunity.	intersections in the Red Rocks and		
	Switchbacks up from Sunshine Rd at the	Provides bike trail connections	Anemone area.		
	west end may require wetlands	from Boulder Canyon bike path,	Private property owners west of the		
	permitting.	Settler's Park and Centennial	loop may encounter an increase in		
	When compared to the WTSA Final Plan for	Trailheads.	trespassing by cyclists accessing		
	the Anemone area, this option would:	less a star	Fourmile Canyon and biking opportunities to the west.		
	·	Impacts:	 Settler's Park and Centennial trailheads 		
	 increase overall trail density in the Anemone area by 39%; 	For cyclists who like trails designed specifically for mountain			
	 increase trail density in black bear Highly 	designed specifically for mountain	are very popular and busy. Increased use in this area could lead to greater		
	Suitable Habitat in the Anemone area by	biking this might not be a preferred trail. Some trail	parking difficulty in the area. Some may		
	47% (Tables 1, 2)	features that enhance the biking	chose to park in the neighborhood		
	 reduce acreage of Abert's Squirrel Highly 	experience will not be used as	increasing conflicts in neighboring areas.		
	Suitable Habitat in the Anemone area by	they may conflict with managing	 Adding a designated trail system in the 		
	46% (Tables 1, 3).	the trail for multiple uses	Anemone Hill area is likely to increase		
	 increase habitat fragmentation in the 	(technical rocky sections,	visitation. Adding mountain biking		
	- increase nabitat nagmentation in the	(teerimear rocky sections,	Visitation. Adding mountain biking		Accorde Home C. Done 2C

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
	Anemone area—creating six smaller	obstacles, etc.).	would add to the visitation, regional		
	habitat blocks instead of 3 larger ones	The first portion of trail off of	use, conflict, and degrade experience		
	(See map entitled: "Anemone Area	Boulder Canyon would require the	for non-biking visitors and may result in		
	Fragmentation Analysis").	use of many steps to get out of	some visitor displacement.		
		the canyon. Cyclists would need			
	Specific impacts by section (See "Trail	to carry their bikes up this portion			
	Segments" Map for identification of trail	of the trail.			
	sections):	Trail alignment crosses or comes			
		in contact with multiple			
	This alignment:	undesignated trails creating the			
	 follows well-used ungulate trails 	potential for increased off-			
	(Section ["s"] 27, 13, 50, 22) with	designated trail use.			
	abundant deer beds (s32,13, 50, 22);	Northern most multi-use trail			
	encroaches into the back country	crosses multiple drainages. This			
	habitat block (s25, 16a, 15.1, 15.2);	could result is multiple seasonal			
	crosses 9 additional well-vegetated	closures due to black bear activity.			
	drainages containing black bear Highly				
	Suitable Habitat (s27, 25, 23, 15.1, 16a,				
	50-52, 22);				
	• increases habitat fragmentation (s32,				
	23, 27, 16a, 15.1, 15.2, 14, 17, 50-52,				
	12, 22, 19, 20);				
	increases habitat disturbance due to probability of placing trail through rook				
	probability of placing trail through rock				
	bands or on steep side slopes (s27, 32, 13, 50-52, 12, 22, 19, 20);				
	 bisects mature forest where Cooper's 				
	hawk adult, fledglings, and nest were				
	located (s23, 25, 32) as well as where				
	forest-interior bird species were				
	present (s23, 25, 32, 16a);				
	 increases chance of sedimentation 				
	where loose soils are present (s23, 32);				
	increases chance of cross-cutting				
	switchbacks on very steep sections				
	which may lead to trail sustainability				
	issues (s23, 17, 16a, 50-52);				
	fragments Abert's squirrel Highly				
	Suitable Habitat in multiple locations				
	(s17, 16a, 15.1, 15.2, 14, 13);				
	• intersects or is parallel to un-restorable				
	undesignated trail (Pipeline Trail) which				

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
	leads into backcountry habitat block (s16a, 15.1, 15.2), this may lead to issues with trespassing on private property and could increase probability of parallel trails forming (s14) and / or crosscutting switchbacks (s15); • parallels drainage with high-quality habitat with riparian vegetation and high bird abundance (s16a); • crosses burned forest (s14, 13, 22), which is rare habitat on OSMP and supports unique bird communities; and crosses a hillside with southern exposure and extensive rock outcroppings, which is preferred habitat for rattlesnakes and lizards (s12).				

Alternative	Ecological/Cultural/Agricultural Resources	Visitor Experience	Recreational Conflict	Trail Sustainability	Estimated Costs
Λ 1	Benefits:	Benefits:	Benefits:	During the CCG process it was	Estimate by OSMP and Contour Logic
A-1	 Minimizes habitat fragmentation in the area. Would leave most of the north facing	 Provides a new designated trail system in the Anemone Area. The separate loops incorporate 	 Hikers and Equestrians have been using this area historically with low levels of known conflict. 	agreed that trail sustainability would be somewhat compromised in order to meet the community's	Sunshine Loop: \$47,000
ccg	slope above Sunshine Canyon unfragmented and keeps trails out of	multiple undesignated trails and still deliver people to where they	 Trails are routed away from the private property boundary on the west side to 	desire to be on the ridge along the north side of the Anemone Loop.	Anemone Loop: \$141,500
Recommended Alternative	some of the highest quality vegetation in the area.	want to go, as evident by the undesignated trail system.	discourage trespassing.Discourages use of pipeline undesignated	The existing undesignated trail along the ridge will receive minor	Total: \$188,500
Aitemative	 Reduces trail density in Anemone area in black bear Highly Suitable Habitat from current conditions (from 99 to 69 ft/are) Increase acreage in Abert's squirrel 	 New trails would cross the pipe line undesignated trail only once, which leads to private property. Uses a number of existing 	trail which also leads to private propertyImpacts:Does not provide a new mountain bike	reroutes to improve sustainability but will generally continue to remain on the ridge. As the trail descends towards Red Rocks,	
3.7 miles	highly suitable habitat in Anemone area from current conditions (from 52 acres to 91 acres, Table 2)	undesignated routes which serve desired key destinations and could minimize the development of new social trails.	 experience Increases demand for parking due to the new designated trail system at the Centennial and Settler's Park Trailheads. 	OSMP will reroute that section and close the existing undesignated trail network. • Steep sections of the Sunshine	
	Impacts:	 Uses along the Sunshine Loop 	However, the increase is expected to be	Loop trail we be rerouted. It will	
	 Unsustainable portions of trail could lead to further erosion, trail widening and resource damage. Separation of trails could lead to some cross-cutting and social trails. bisects Abert's squirrel Highly Suitable 	would be consistent with the uses allowed on the easement along the northwest side that leads to Wittemyer. • Approved by the CCG	modest.	 also be located away from rare plant occurrences. The segment that parallels the road will receive maintenance. New trail segments will be built in compliance with OSMP Trail Construction and Maintenance 	
	 Habitat; follows well-used ungulate trails with abundant deer beds in some sections; bisects mature forest where Cooper's 	 Impacts: The two loops are not connected and visitors may create new undesignated trails to connect 		Guidelines.	
	hawk adult, fledglings, and nest were located;	them. • No designated connection to			
	 parallels drainage with high-quality habitat with riparian vegetation; 	boulder creek path			
	 crosses burned forest, which is rare habitat on OSMP and supports unique bird communities; 				
	 crosses a hillside with southern exposure and extensive rock outcroppings, which is preferred habitat for rattlesnakes and lizards; and 				
	 increases chance of sedimentation where loose soils are present. 				

Table 1. A comparison among the trails developed by Design Concepts, Inc. for the Anemone area and the trails approved in the WTSA Final Plan. For more information, see Tables 2 and 3 and Map 5.

	Change in Overall Trail Density*	Change in Trail Density in Black Bear HSH	Change in Acreage of Abert's HSH	Number of Habitat Blocks
Main Loop System w/ Hiker Cxn ("C-1")	↑ 39%	↑ 48%	↓ 46%	6
ML (Shared Use) ["C-2"]	个 23%	个 20%	↓ 46%	4
Initial Trail Concept ("C-3")	个 29%	个 26%	↓ 27%	5

^{*}Change in overall trail density in the Anemone area from the WTSA Final Plan to those developed by Design Concepts, Inc.

Table 2. A comparison of trail density in black bear Highly Suitable Habitat among the original OSMP Inventory, WTSA Final Plan, and the three trail options provided by Design Concepts throughout the WTSA and in the Anemone area.

				Blac	k Bear								
			V	VTSA - 10	0,669 Ac	res							
	1280 Potential HSH Acreage = 12% of Total WTSA Acreage												
		Inventory (Existing Conditions)	Final P	ackage	М	LS w/Hike	Cnx	MI	S (Shared	Use)	Init	ial Trail Co	oncept
In Black Bear HSH	Trail Mileage In HSH	Density Within HSH (ft/acre)	Trail Mileage In HSH	Density Within HSH (ft/acre)	Trail Mileage In HSH	Density Within HSH (ft/acre)	% Increase Compared To Final Plan	Trail Mileage In HSH	Density Within HSH (ft/acre)	% Increase Compared To Final Plan	Trail Mileage In HSH	Density Within HSH (ft/acre)	% Increase Compared To Final Plan
All Trails (Including Design Concepts Alignments) & Roads*	23.94	98.75	17.85	73.63	18.45	76.11	3.4%	18.11	74.70	1.5%	18.19	75.03	1.9%
OSMP Designated Trails (Includes Design Concepts Alignments)	14.64	60.40	15.42	63.59	16.00	65.95	3.7%	15.65	64.55	1.5%	15.74	64.89	2.0%
Undesignated Trails	7.32	30.19	0.45	1.83	0.44	1.83	N/A	0.44	1.83	N/A	0.44	1.83	N/A
			Anemo	ne - 583	Acres								
		93 Potential F	ISH Acreage	e = 16% of	Total Aner	none Acrea	age						
		Inventory (Existing Conditions)	Final P	ackage	М	LS w/Hike	r Cnx	ML	₋S (Shared	d Use)	Init	ial Trail Co	oncept
In Black Bear HSH	Trail Mileage In HSH	Density Within HSH (ft/acre)	Trail Mileage In HSH	Density Within HSH (ft/acre)	Trail Mileage In HSH	Density Within HSH (ft/acre)	% Increase Compared To Final Plan	Trail Mileage In HSH	Density Within HSH (ft/acre)	% Increase Compared To Final Plan	Trail Mileage In HSH	Density Within HSH (ft/acre)	% Increase Compared To Final Plan
All Trails (Including Design Concepts Alignments) & Roads*	2.86	162.37	2.32	131.72	2.90	164.65	25.0%	2.56	145.34	10.3%	2.64	149.88	13.8%
OSMP Designated Trails (Includes Design Concepts Alignments)	0.55	31.23	1.22	69.26	1.80	102.19	47.5%	1.46	82.89	19.7%	1.54	87.43	26.2%
Undesignated Trails	1.21	68.70	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A

MLS = Main Loop System

Note: Roads have 0.15 miles in

HSH

Note: BOCO Designated Trails have 0.95 miles in HSH

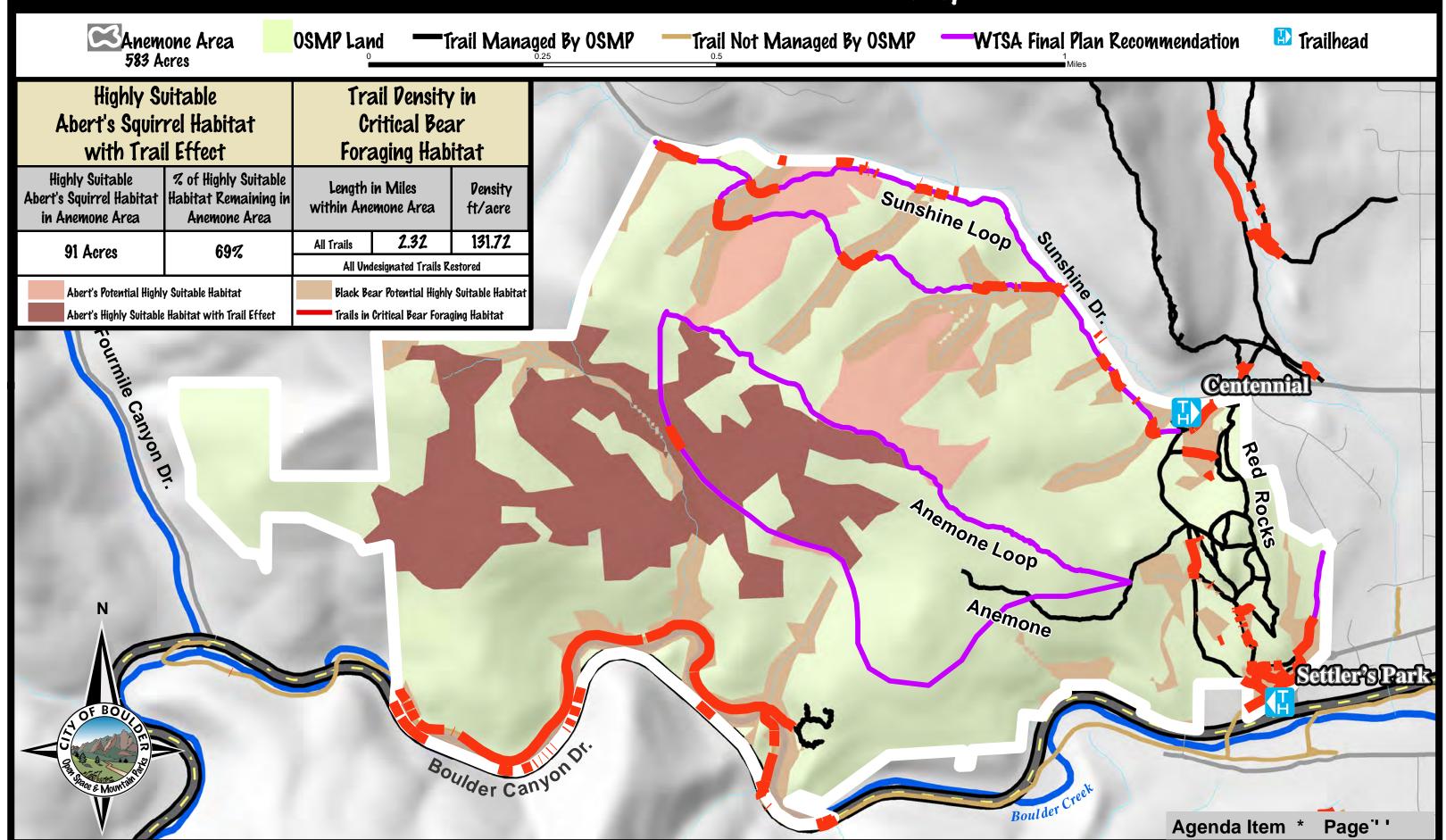
^{*}Includes OSMP and BOCO Managed Trails, Undes. Trails & Roads

TABLE 3. A comparison of the acreage of Abert's squirrel Highly Suitable Habitat remaining in the original OSMP Inventory, WTSA Final Plan, and the three trail options provided by Design Concepts throughout the WTSA and in the Anemone area.

		ABERT'S SO	QUIRREL			
		WTSA - 10,6	669 Acres			
944 Potential HSH Acreage = 9% of WTSA Acreage						
Alternative	HSH Acres Remaining After Trail Effect	Percentage of HSH Acreage Remaining If Alternative Is Implemented	Change In HSH Acreage If Alternative Was Implemented	Percent Change In HSH Acreage If Alternative Was Implemented	Change In HSH Acreage If Alternative Was Implemented Instead of Final Package	Percent Change In HSH Acreage If Alternative Was Implemented Instead of Final Package
Inventory Report (Existing		/				
Conditions)	538	57%	N/A	N/A	N/A	N/A
Final Package	608	64%	70	13%	N/A	N/A
Main Loop System With Hiker Cnx	566	60%	28	5%	-42	-7%
Main Loop (Shared Use)	566	60%	28	5%	-42	-7%
Initial Trail Concept	583	62%	45	8%	-25	-4%
ANEMONE - 583 Acres						
132 Potential HSH Acreage = 23% of Total Anemone Acreage						
Alternative	HSH Acres Remaining After Trail Effect	Percentage of HSH Acreage Remaining If Alternative Is Implemented	Change In HSH Acreage If Alternative Was Implemented	Percent Change In HSH Acreage If Alternative Was Implemented	Change In HSH Acreage If Alternative Was Implemented Instead of Final Package	Percent Change In HSH Acreage If Alternative Was Implemented Instead of Final Package
Inventory Report (Existing						
Conditions)	52	39%	N/A	N/A	N/A	N/A
Final Package	91	69%	39	75%	N/A	N/A
Main Loop System With Hiker Cnx	49	37%	-3	-6%	-42	-46%
Main Loop (Shared Use)	49	37%	-3	-6%	-42	-46%
Initial Trail Concept	66	50%	14	27%	-25	-27%

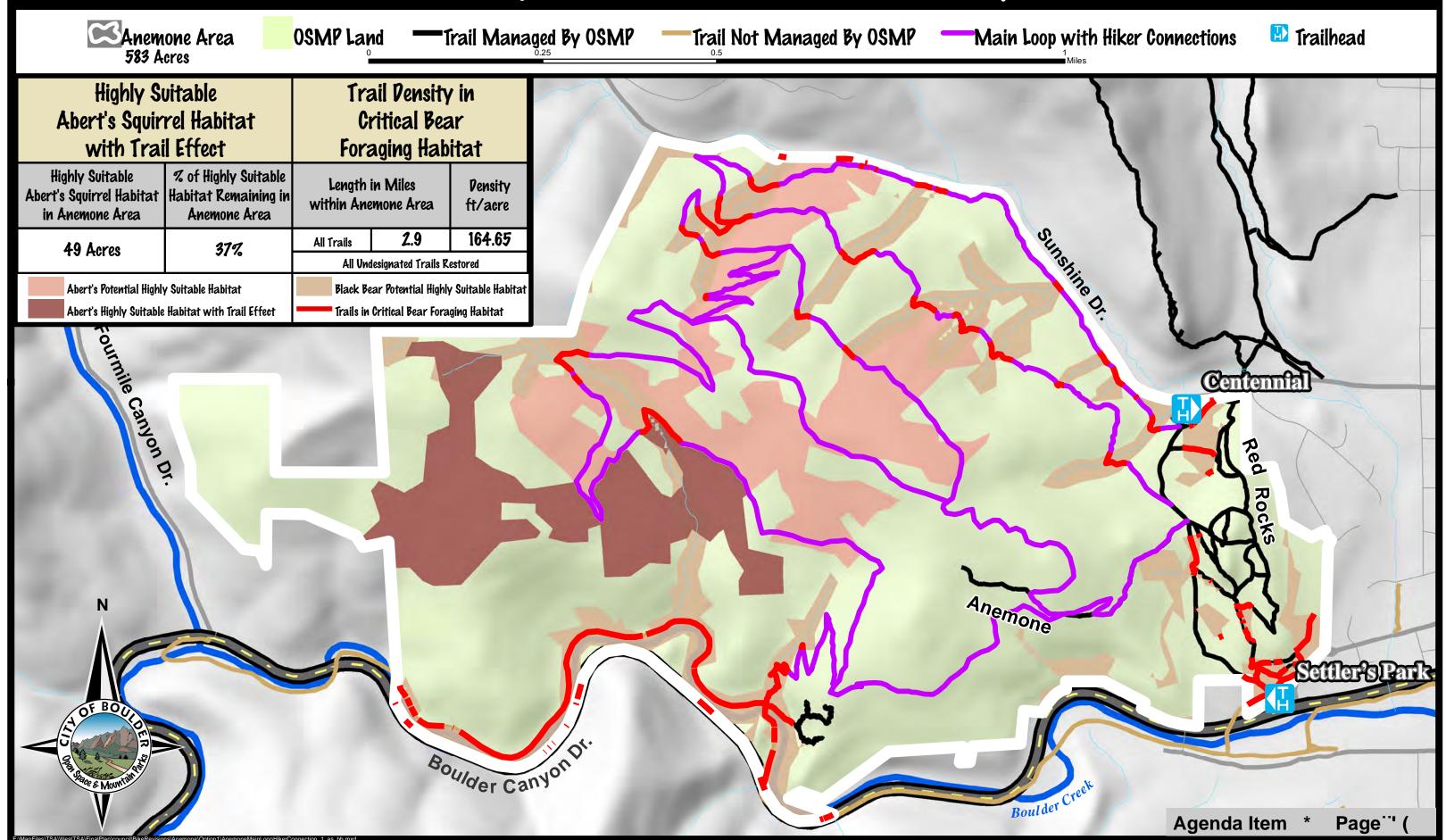
Anemone Area - Abert's Squirrel and Black Bear Combined Habitat Suitability WTSA Final Plan Recommendation Analysis

Map 4
Attachment D

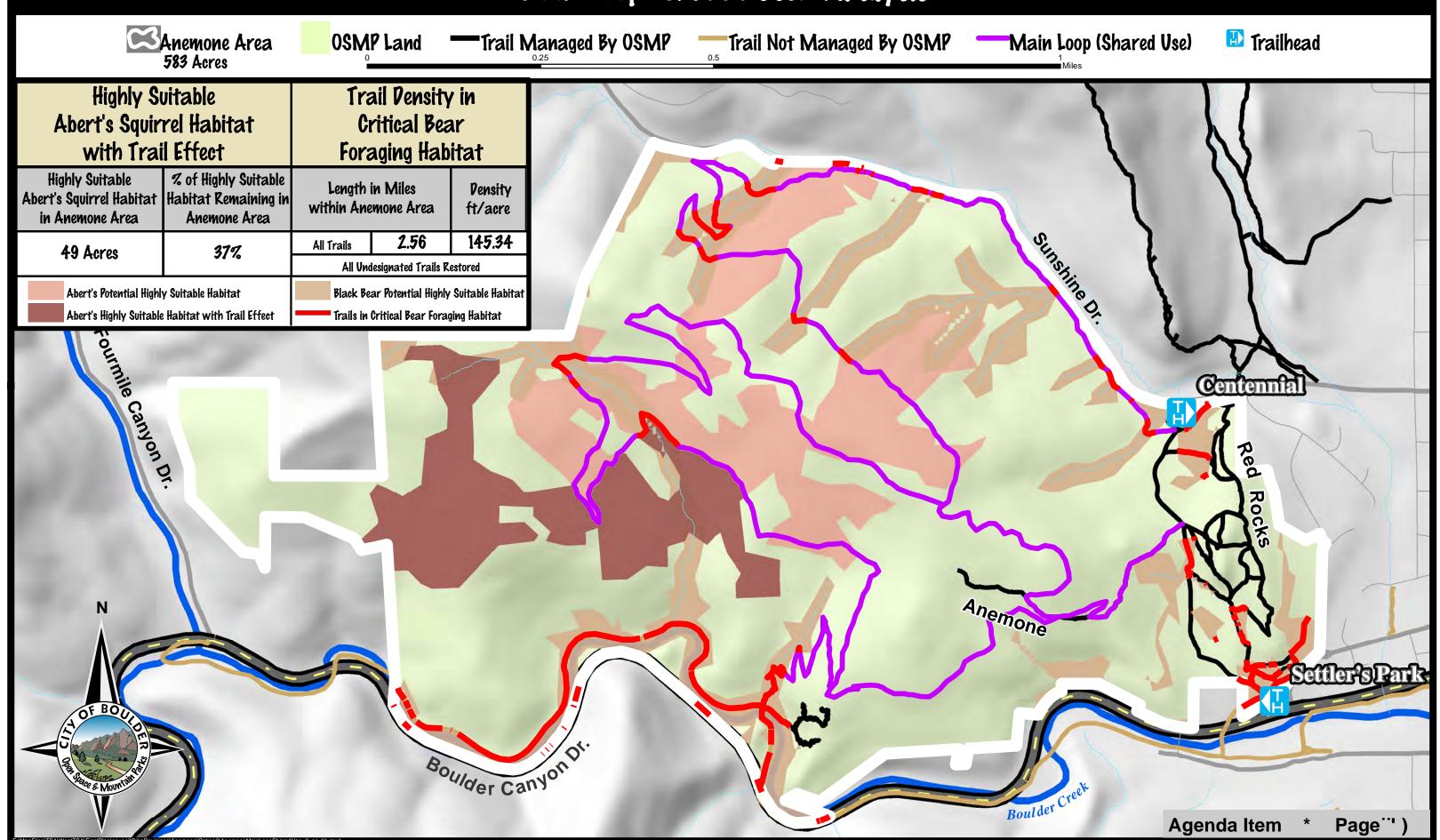


Anemone Area - Abert's Squirrel and Black Bear Combined Habitat Suitability Main Loop System with Hiker Connections Analysis

Map 5
Attachment D

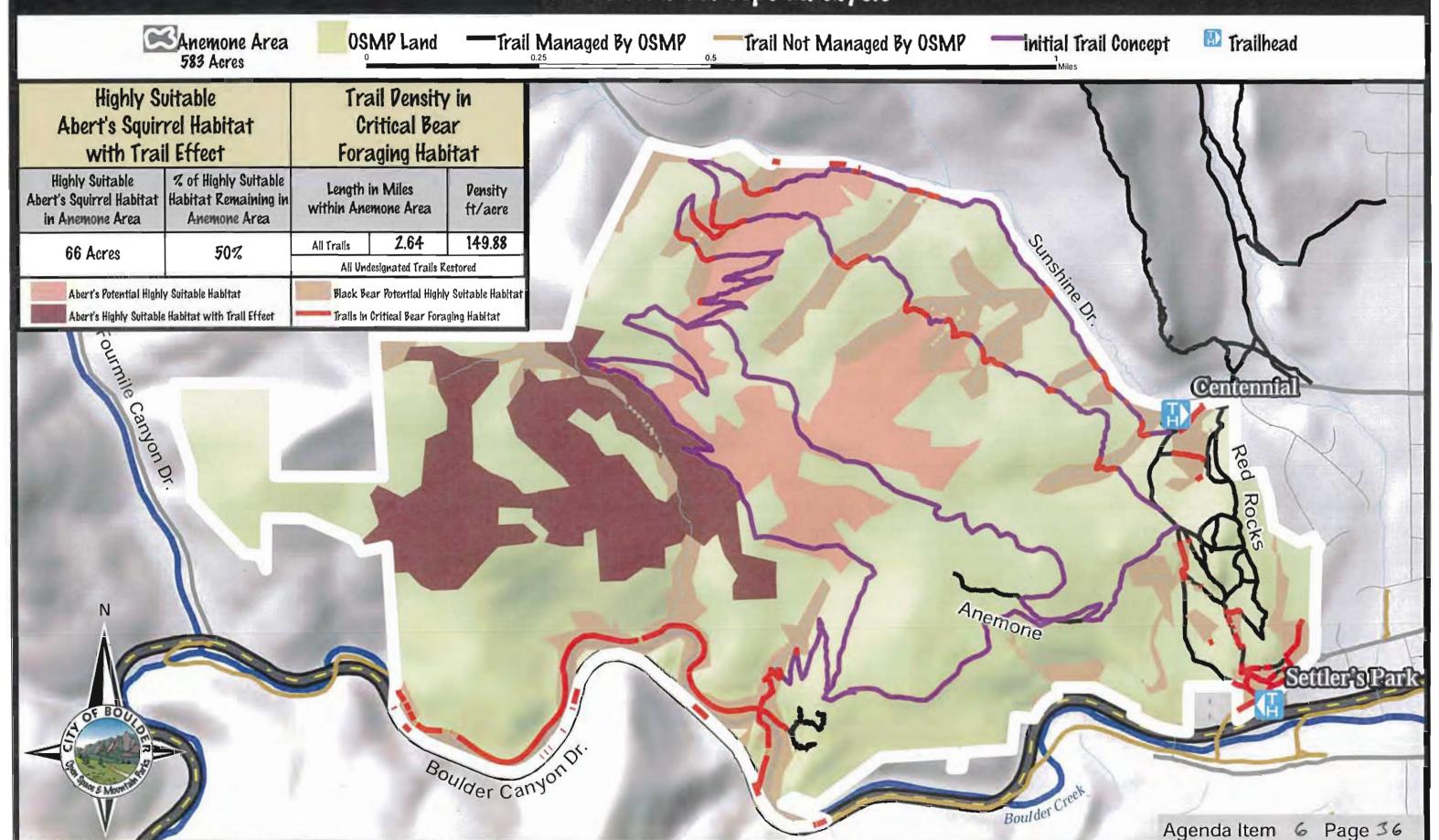


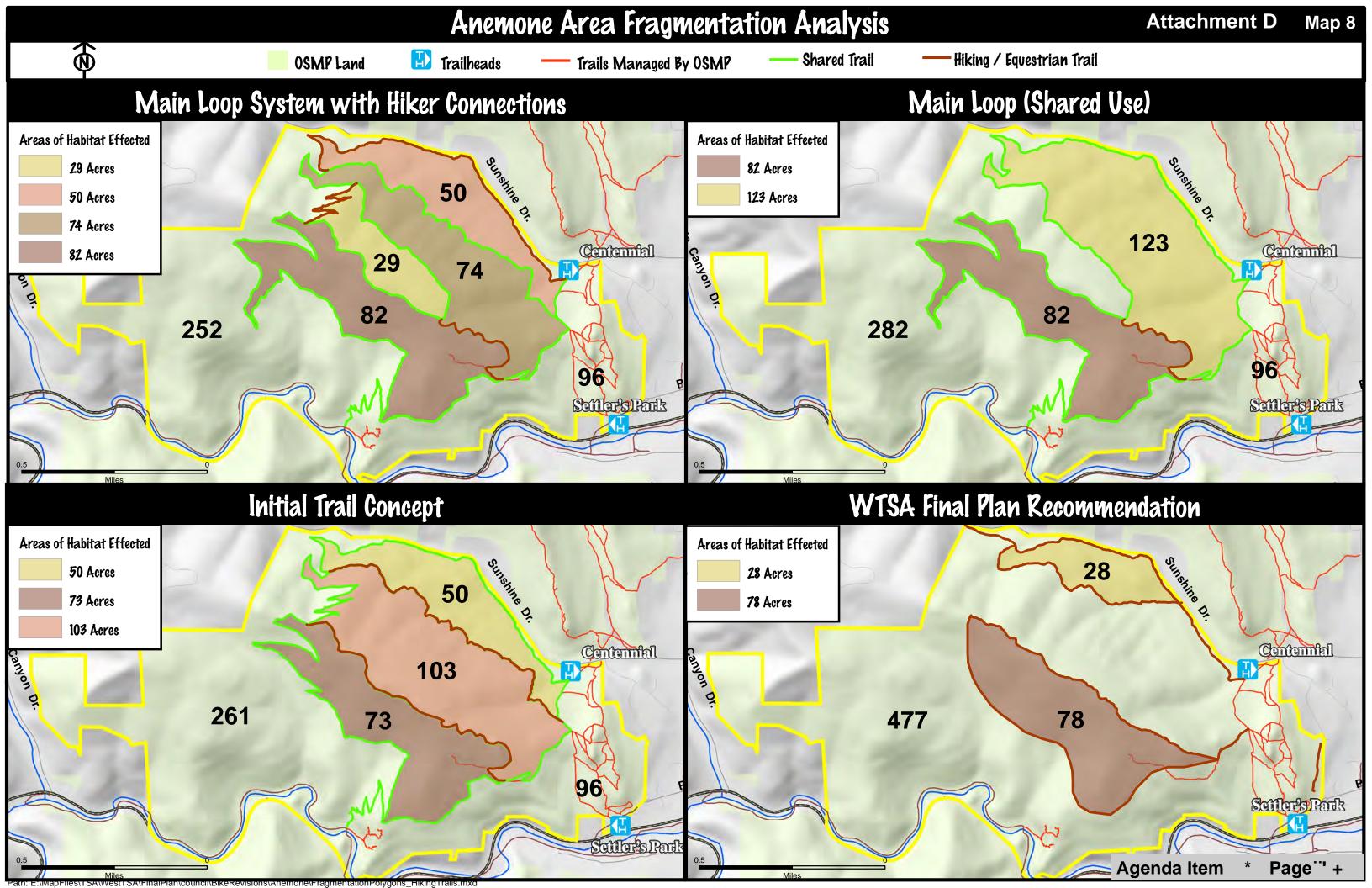
Anemone Area - Abert's Squirrel and Black Bear Combined Habitat Suitability Main Loop (Shared Use) Analysis





Map 7 Attachment D





Map 9
Attachment D

